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ADDENDUM NO. 2
Date: August 11, 2010

ITB # 10-0031
Construction of a Groundwater Remedial System at the Astatula Refueling Facility

This addendum is being issued to make the following changes, corrections, clarifications and additions to the bidding document. The information in this addendum modifies and changes the original bidding documents and takes precedence over the original documents. Respondents shall acknowledge receipt of this addendum by completing this form and returning it with the response. Failure to acknowledge this addendum may preclude consideration of the bid proposal award.

The following guidance is given to supplement information and provide additional guidance to that which was presented in the Invitation to Bid (ITB) Number 10-0031. All potential bidders shall consider the information presented herein with regard to impact of the project bid cost, scope of work and liabilities associated with this additional guidance.

1. System Startup and Adjustment: The Contractor shall perform remedial system startup and adjustment for a minimum period of three consecutive days provided an operational run time percentage of 85% is achieved. If at the end of the three day system startup the minimum operational percentage is not achieved, the Contractor shall remain onsite until the operational run time percentage criteria is met.
During system startup Contractor shall perform influent and effluent aqueous and vapor sampling and analysis in accordance with Florida Chapter 62-770.700 FAC, to provide analytical proof that the remedial system is operating as designed. A minimum of three sampling events for influent and effluent air each shall be performed during the startup and adjustment period, and one sampling event for the influent and effluent groundwater. All samples shall be sampled in accordance with State of Florida Department of Environmental Protection (FDEP) Standard Operating Procedures for the intended methods. Air samples shall be collected and analyzed by EPA Method 18, with 24-hour turn-around time. The first air sample shall be collected on the first day of operation, and the remaining two samples shall be collected with no less than 36 hours between sampling events. Groundwater samples, both influent and effluent, shall be analyzed for EPA Methods 8310 for PAHs and 8260B for BTEX/MTBE. One week turn-around time will be acceptable for water samples. Analysis of all samples shall be completed by a lab with current (at the time of analysis) NELAC certification for the methods being run. If analytical results for the treated media fail to meet the cleanup criteria in Florida Chapters 62-777 and 62-770 FAC, the Contractor shall collect additional samples and retest at their expense until acceptable cleanup standards are met.

In addition to the remedial system monitoring, the contractor is responsible for collecting field data to document recovery rate, pressure, well drawdown and other pertinent data to evaluate the remedial system's operational performance. At a minimum ground water elevation at the recovery wells shall be collected daily during startup, as well as instantaneous and cumulative flow for each recovery well.

2. Remedial System Startup Report: The contractor shall prepare a Remedial System Startup Report in accordance with Florida Chapter 62-770.700 FAC at the completion of construction and successful system startup and adjustment. The contractor shall include As-Built drawings of the constructed system in the Remedial System Startup Report, which shall be signed and sealed by a Florida registered professional engineer. The Startup Report & As-Built drawings shall be submitted to the County within 110 days after completion of remedial system startup and operation. The Contractor is responsible for acceptance of the Startup Report by FDEP.

In addition, the Contractor shall coordinate with the equipment manufacturer(s) and/or supplier(s) to assemble an Equipment Operation and Maintenance (O&M) manual. The O&M manual shall include at a minimum scheduled preventive maintenance activities and their frequency. In addition, any components that require frequent replacement shall be identified, along with a supply source and lead time for their procurement.

3. Extraction Well Oversight: The contractor shall provide a Competent Person as defined by degree and or experience to provide oversight of the extraction well installation. The competent person shall observe and record specific qualities, depths, lithology and materials used during well installation. In addition, this person shall observe well development and be qualified by degree or experience to determine when well development activities can be halted. The contractor shall obtain all permits for well installation and provide to the County well logs that document the well construction.

4. Substitute Products: The product line listed below is to be considered as a no-substitute basis:

- Low Profile Air Stripper completed with blower, transfer pump and instrumentation
- Well Pumps, Control Modules, Pressure Transducers, and Accessories
- Bag Filter Housings
- Differential Pressure Switch/Gauge Units
- Vapor Phase Carbon Equipment and Booster Blower (Rental)
- Liquid Phase Carbon Equipment
- Control Panel

Notwithstanding Chapter 3, Article 5, Section 5.4 of the Contract for Construction, these items shall be considered as no substitution. These items shall be purchased by the Contractor from Carbonair, and the price for this purchase shall be a sub-item on the cost break-out of the Contractor's bid pricing.

<u>Questions and Answers:</u>

1. Can we spell out what exactly will be expected of the Contractors for the start up – Run Time?
Please see above, as this is directly covered in the first section..

2. Do the contractors need to have a PE sign and seal the reporting (red lines)?
Yes.

3. Can the equipment be an equivalent?
No; use the specification package.

4. Can they perform conventional drilling instead of sonic?
No; the drilling method shall be sonic only.

5. Is PLS needed?
No, the County is providing a survey layout of the recovery wells and trenching alignment.

6. How will the material removed when drilling be disposed of? Drums and County will Haul it away?
Drums or other approved container may be used. If you would like to use some container other than standard steel drums, please make a submission to the County's Engineer. We are only looking for a sturdy, sealable container that can be efficiently moved with equipment.
The Contractor shall be responsible for transportation and disposal of the drill cuttings, so any container selected by the Contractor shall be appropriate to the means and method of disposal. Contractor shall provide documentation of proper disposal of drill cuttings in project closeout documents.

7. What is the budget for this ITB?
The project estimate is less than $450,000.

8. Is it the contractor's responsibility to obtain utility clearance?
Yes.

9. What permits will be needed?

Building Permit:	20 X 36 = 720 sf x .39 =	$280.80	
Electrical Permit:	75 =	$ 75.00	
OT/CIR		$ 2.81	
(Operating Trust/Construction Industry Recovery)			
	Total	$358.61	½ of this amount is due at time of application

The fees listed above are subject to change 10/1/2010.

10. When trenching across road, should it be cased?
Please refer to bid text, Trenching section, Part 3.
Also, the Contractor must maintain roadway accessibility during construction.

11. How much land clearing will there be? And where can it be disposed?
The Contractor shall only cut trees and vegetation as necessary to install remedial system, to be approved by the County's Engineer. The Contractor will be responsible for transportation and disposal of all debris, including land clearing debris and construction debris. The Contractor will also be responsible for moving the pipe sections, dumpsters, and other County-owned materials that may conflict with construction activities. The County's Engineer will provide direction for the movement of these items.

12. Is there power close to the remedial compound? Can we give the power contact in the addendum?
Yes, there is power close to the remedial compound.
Sue Freyser at Progress Energy is the contact for this facility, and she may be reached by phone during the day at 407-646-8364.

13. Do recovery wells 1, 2, and 3 share conduit and power?
One conduit supplies power to all three, and another conduit supplies signal to all three.

14. Who will do the compaction testing?
The Contractor will be responsible for providing compaction testing.

15. What will be the access hours to work? Is there an option to work Saturdays?
7:00 a.m. through 7:00 p.m., Monday through Friday, and Saturdays if needed.

16. On plan sheet C8, change the 85.5 feet to 85.5 inches.
Correct; it should read 85.5 inches and not 85.5 feet.

17. Can the contractor stockpile?
The County will provide an area for equipment laydown and storage. However, security is the Contractor's responsibility.
All drill cuttings shall be containerized in an approved method. See answer to Question 6 above.

18. Who will do the utility account, contractor or County?
The Contractor shall coordinate with utilities and pay hookup costs but the accounts should be set up in the County's name.

19. When does the project have to be completed?
120 days after notice to proceed.

20. Can we provide a timeline for the bidding, award and notice to proceed?
Approximately 60 to 90 days from date bid responses are due to "Notice to Proceed".

21. Can the installation vary a couple feet either direction?
The installation of all components may vary a few feet laterally, but the well construction details should be closely adhered to for depth. The contractor shall coordinate any deviation to the remedial system layout with the County's Engineer.

22. Will the County have a person on site at all times the contractor is working?
There will not be constant, direct supervision of the Contractor's work. There will be daily or nearly daily visits and/or inspections by the County's Engineer to monitor adherence to and to provide clarification of the plans and text.

23. Will tree removal be required? Can trees be taken to landfill station?
See answer to Question 11 above. The Contractor may arrange to bring such debris to the landfill, but would have to do so through normal channels and pay the normal associated fees and/or rates.

24. Will the County buy the equipment to expedite the work?
No, purchase of equipment will be the Contractor's responsibility. Please refer to Item 4 of this Addendum for allowable substitutions. Use of the County's "Sales Tax Recovery Program" will be a post award consideration.

25. What is considered substantial completion? Having the system performing at 80% or having reports done for FDEP?
Substantial project completion shall be operating the entire remedial system with a minimum 85% run time for three consecutive days. Also, see answer to Question 1 above.

26. Is the use of "one pass trenching" a requirement for the installation of the HDPE piping or a recommendation?
The method of "one pass trenching" may be substituted only with approval from the County's Engineer. Please submit your alternative to the County's Engineer for review and approval. The intent is to build an infiltration gallery that will resist fouling, which we expect will be a significant issue due to the relatively high natural levels of irons. Some kind of ***washed*** *rock must be used surrounding the pipe so as to provide sufficient infiltration from the gallery and not fall into the open holes in the perforated pipe. The granite specified may be substituted for such a similar stone with approval from the County's Engineer, but any rock used must be thoroughly washed before installation.*

27. How and where will the equipment be staged? Is assembly required once the equipment is purchased?
See answer to Question 17 above. No major assembly will be required once the equipment arrives.

28. Page 1 of the Invitation to Bid states that "Vendors shall complete and return the entirety of this ITB document" while Section 2.14.2 of the Special Terms & Conditions says that only the "documents listed below" need to be delivered as part of the bid. Please confirm that only those items noted in 2.14.2 need to be included as part of the bid package.
Items listed in 2.14.2 are the items that must be submitted with the bid response.

29. Page 8 of the Invitation to Bid states that 'Bidder's Personnel Form' is required to be turned in with the bid; however, the 'Bidder's Personnel Form' states "to be completed ten (10) days after bid date." Please clarify.
Bidder's personnel form should be submitted with bid response.

30. Page 7, Article 5, Item (v) of the 'General Contractor's Agreement' has checkboxes in regards to whether or not Builders Risk Insurance is required. Neither is checked. Please confirm no builders insurance is necessary.
Builders Risk insurance is not required.

31. Please confirm that ductile iron is acceptable material for HDPE back-up rings.
Ductile iron back-up rings are acceptable; however, the County would like to have some type of corrosion protection applied to the rings preferably at the factory, but field application will be acceptable as well.

32. Please specify nut, bolt, washer, and gasket material for PVC flanges.
Nuts, bolts, and washers (on both sides) of all flanges shall be of stainless steel. Nuts shall be of a locking type.

33. The "Equipment Shed" specification section says "Attach Cut Sheet" but no cut sheet was provided. Please clarify intent.
The Contractor shall attach a cut sheet or sketch from the manufacturer along with cut sheets for other equipment and hardware in their bid, to be reviewed and accepted by the County.

34. Please provide a manufacturer and model number for the float switch in the piezometer well.
The switch in the piezometer well is specified as a suspended conductivity electrode. The Dwyer Instruments Series CLP will accommodate the intended control panel design.

35. Drawing C-5 calls for the 6" perforated pipe to be socked and on the same page to NOT be socked. Please clarify.
The perforated pipe should NOT be socked.

36. Please provide an allowance item on the bid form for paying for power, telecommunication, and permitting costs, and a unit price lines item for a number of months of additional rental on the Vapor Phase Carbon Vessel and Booster Blower.
Allowances shall be made for blower rental in the amount of $3,000 and for permitting fees in the amount of $350.

37. Please confirm that there are no prevailing wage scales and no W/MBE requirements.
None

38. Please clarify where the telecommunications line will run to, and what is required for the Contractor to include in the bid price.
The telecommunications line alignment shall be coordinated with the phone service provider to achieve the most cost effective alignment. The contractor shall coordinate with the County on the telecommunication alignment to avoid conflict with County operations. If the alignment is below grade the telecommunications line shall be buried a minimum depth of 24 inches below existing grade and contained in a Schedule 80 PVC conduit or other acceptable conduit in accordance with local code.

39. The Specifications and Drawing P-2 differ from Drawing C-6 with regards to the Rental Booster Blower. Please clarify what is needed.
The P&ID, Drawing P-2, was drawn to streamline the process for viewing ease. The Rental Booster Blower shall be located inside the shed for security and weather resistance purposes.

40. Please confirm that all items (dumpsters, concrete pipe, etc.) that were seen at the 7/29/10 pre-bid to be in the way of the pipeline and wells locations will be relocated by the County prior to construction work.
The Contractor shall coordinate with the County to relocate material in conflict with construction, and the Contractor shall be responsible for damages incurred during relocation of these items.

41. Please provide a copy of the 7/29/10 Pre-Bid Metting attendees sign-in sheet.
The sign in sheet for the pre-bid conference may be obtained by visiting our website at http://www.lakecountyfl.gov/departments/fiscal_and_administrative_services/procurement_services/bid_details.aspx?bid_number=10-0031

42. Please confirm that no rebar or welded wire mesh is required in either of the concrete slabs at the Equipment Shed.
As per the text portion of the bid documents, the Remedial System Pad section, Part 2, the slab shall require some form of steel reinforcement. In addition, according to Part 3 of this section, footers shall be required on slab. Any submission without adequate reinforcement and footers will be rejected.
Also, for clarification, it was our intent that the base for the shed and the exterior pad for the rental vapor-phase carbon unit be of one continuous concrete pad, as opposed to two separate ones.

43. Do we reduce to 1" diameter immediately at the HDPE piping supplying 1" valves and fittings and then transition back to 2" after the flow meter to connect to the inlet manifold, OR do we maintain 2" diameter valves and fittings and reduce to 1" diameter at the flow meter then transition back to 2" to connect to the manifold?
The contractor shall construct piping at the recovery well vaults so that the 2-inch diameter HDPE transitions to PVC in the diameter specified in the construction drawings outside the vault. At the remedial compound, the 2-inch HDPE piping transitions to Schedule 80 PVC above the surface of the remedial system pad. For each leg, a ball valve, a check valve, a Dwyer WM-A-C-04 multi-jet water meter (or approved equal, with approval from the County's Engineer), and a Dwyer LFME-14-F2 polycarbonate rotameter (or approved equal, with approval from the County's Engineer) shall be installed between the floor and the manifold. This set of components shall be bounded on each end by true unions for ease of removal. Please note that these flow meters each feature 1" NPT connections. Both meters shall be installed vertically, and no space needs to be given between them for flow straightening. 1" true unions, check valves, and ball valves will be acceptable, but all piping and components other than the flow meters must be of Schedule 80 PVC construction.

44. What is the area classification for the system enclosure (GP, Class 1 Div2)?
The system enclosure will be classified as Class 1, Division 2.

45. What are the concentrations of the contaminants and the water flow rate for air stripper modeling?
The air stripper unit may not be substituted.

49. The air stripper discharge pump has a Peerless model specified on the P&ID Sheet P-2, however it is not included in the Project Specifications. Is this model required or can we substitute a Goulds model?
This unit is part of the air stripper unit, and will be supplied by Carbonair as part of the unit. Therefore, it cannot be substituted.

50. The air stripper blower motor is listed as 20HP on the P&ID Sheet P-2 and in the control panel section of the Project Specifications and as a 25 HP motor in the Air Stripper section of the Project Specifications. Which motor is correct?
Both the air stripper blower motor and the rental blower are 25 hp motors. Carbonair has been alerted of the discrepancy, and the control panel will be supplied by them accordingly.

51. The air flow indicator mentioned in the Project Specifications is not shown on the P&ID. Is this to be included and if it is, where is it to be located?
The direct-reading air flow indicator is built into the air stripper unit, and will be supplied as such by Carbonair.

52. The FSI BFN series housings are not ASME approved, however ASME approval is specified in the Project Specifications. Please clarify whether ASME approval is required.
The bag filter housings must be ASME approved. The correct model number is FSPN0085B0300N03F03F02A1N.

53. The booster blower is to include a damper valve per the Project Specifications, but it is not shown on the P&ID Sheet P-2. Please clarify if this is to be included.
The damper valve will be supplied by Carbonair with the booster blower.

54. OK to substitute Oatey PVC cement for the Rain-R-Shine cement specified.
Oatey Heavy Duty Gray Cement may be substituted for Rain-R-Shine, and should be used on larger fittings as per the manufacturer's recommendations for each product, since Oatey does not recommend using Rain-R-Shine for pipe sizes larger than six inch nominal size.

55. What is the distance from the remote well pumps to the remedial compound?
It is the Contractor's responsibility to ascertain these numbers either from the figures or from actually walking the site itself. The County has surveyed in the well locations and the piping runs at the site, and has also included, in Amendment 1, a revised plan view in State Plane coordinates to assist with this particular matter.

56. The Grundfos 22Redi-Flo3-210 well pumps come with a standard 1.5HP motor. The Project Specifications for these pumps call out a 1HP motor. Please confirm that the 1.5HP version of this pump is the correct model.
The "deep" pumps call for the 22Redi-Flo3-210, which has a 1.5 hp motor. The "intermediate" and "deep-deep" pumps call for the 10Redi-Flo3-220, which has a ¾ hp motor.

57. Shaw mentioned Carbonair leasing one large motor, then taking it back after a while, removing it from the system, saving the country power. Please explain.
Carbonair will supply a rental booster blower motor and a rental vapor carbon vessel, with carbon, for a period of one month. It is required by law to treat the vapor effluent of a new treatment system for one month. At the end of one month, if the system emits less than a set threshold amount of carbon to the atmosphere, the carbon may be removed. Any further rental charges for the carbon vessel and blower motor, if required, would not be the responsibility of the Contractor.

58. The infiltration gallery is located amongst a stand of trees. How many trees would be able to be removed to make the gallery work properly?
See question #11.

59. How many compaction tests are required per foot of trench?
Two tests at the road crossing, meaning the main dirt access road adjacent to the fueling area only. The County's Engineer will assign the specific locations at that time. The Contractor must provide some mechanical means to densify the soil there, i.e. a plate compactor, jumping jack, or the like.

60. Will a technician be required for 24 hour coverage during the 3 days of start up?
Twenty-four hour coverage should not be required if the system is installed properly. The interlocks designed into the system should, if all is installed properly, allow the system's components to run in automatic mode safely. It would be highly recommended however that the Contractor set up the telemetry to notify in case of an alarm/shutdown condition, in order to meet the run time conditions set forth in the answer to Question 1 above.

61. What width do we use for the one-pass trenching of the infiltration gallery?
The width of the trench for the infiltration gallery shall be at least 12 inches.

Firm Name:_____ Date: _____

Signature: _____ Title: _____

Typed/Printed Name: _____

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